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Notice of Allowability**Application No.**

10/719,346

Examiner

Emmanuel Sayoc

Applicant(s)

CHEN, CHIA-TEH

Art Unit

3746

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed 11/21/2003.
2. ☒ The allowed claim(s) is/are 1-3.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows:

The Title is replaced with "A Multi-fan Assembly Comprising a Servomotor Driven Vertical Oscillation Means for Each Fan"

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: the prior art neither discloses nor makes obvious the combination set forth in the claims by not disclosing a multi-fan assembly having plural member fans capable of revolving around a common central shaft and oscillating vertically, wherein the assembly comprises a down rod assembly including a down rod and a shaft, a rotary assembly with a motor and transmission for inducing fan revolution about the central shaft, fixed arms on which the plural fans are movably attached via a vertical oscillation means, one for each fan, for vertical oscillation, and in particular where the vertical oscillating means comprising a servomotor, a gear cluster, a crank, a connecting rod and a rocker lever. Furthermore the servomotor together with the gear cluster is disposed at the rear end of the motor of the rotary assembly by virtue of a bracket. The crank has a first end for connecting with the gear cluster, the connecting rod is fixed to a second end of the crank, and the rocker

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lever has a first end connected to the connecting rod and a second end fixed to the fixing arm of the rotary assembly. The servomotor of the vertical oscillating means is applied for effecting differential rotation of the gear cluster so as to drive the crank, and thus further driving the connecting rod as well as the rocker lever for effecting vertical oscillation of the respective member fans.

Gajewski et al. (U.S. 6,832,902 B2) is hereby cited for teach a multi-fan assembly having plural member fans (28) capable of revolving around the common central shaft (see threaded rod below down rod 18) and oscillating vertically. The assembly comprises is similar to the claimed invention in that it has a rotary assembly, a servomotor and transmission for inducing revolutionary motion of the plural fans about the central down rod and shaft. The device even has parallel stationary arms, which connect the plural fans on the outer ends to the rotary assembly in the center of the device. The fans do oscillate vertically on hinges at the junction of the fans and the stationary arms. The device is insufficient for not teaching plural vertical oscillation means with the servomotors and mechanical linkages with the configuration as outlined above.

Chen (U.S. 6,913,443 B2) is hereby cited for teaching an analogous plural fan assembly. The plural fans have vertical oscillation means, which read upon the claimed invention, however this reference is commonly owned by the invention and the reference dates are such that it does not qualify as a prior-art reference. Double patenting rejections have been ruled out.

Kawal (U.S. 4,730,981) is hereby cited for teaching an analogous plural fan assembly which has a vertical oscillation means configured differently from the claimed invention.

Glasser (U.S. 1,577,461, and U.S. 1,409,090) are hereby cited for teaching a vertical oscillation means for the fan blades of a fan.

Chen (U.S. 6,772,589, and U.S. 6,817,830), and Liu (U.S. 6,364,638) are hereby cited for teaching an analogous plural fan assembly which has a vertical oscillation capability just not electro-mechanical as configured in the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Priority

3. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Taiwan on 03/31/2003. It is noted, however, that applicant has not filed a certified copy of the 092204991 application as required by 35 U.S.C. 119(b).

Drawings

4. The drawings are objected to because the current control element (32) as described in the specification on Page 5 is not enumerated in the drawings. In order to

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avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Sayoc whose telephone number is (571) 272 4832. The examiner can normally be reached on M-F 8-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy S. Thorpe can be reached on (571) 272-4444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Emmanuel Sayoc
Examiner
Art Unit 3746

ECS



Timothy S. Thorpe
Supervisory Patent Examiner
Group 3700